

## Claims

1. A method of selecting at least one link adaptation parameter for a communication link between a mobile terminal and a network component of a wireless telecommunication network, the method comprising the steps of:
  - providing means for determining of a link adaptation parameter based on a geographic positions of the mobile terminal,
  - determining of a geographic position of the mobile terminal,
  - determining the link adaptation parameter for the communication link based on the geographic position of the mobile terminal.
2. The method of claim 1, the link adaptation parameter being a modulation and/or coding scheme from a set of modulation and/or coding schemes.
3. The method of claim 1, the means for determining of a link adaptation parameter being provided as a digital map which assigns the link adaptation parameters to geographic positions and/or regions.
4. The method of claim 1, further comprising:
  - predicting of a future geographic position of the mobile terminal based on geographic positions of the mobile terminal which have been determined previously,
  - determining a future link adaptation parameter for the predicted geographic position.
5. A method of generating a database for assigning of link adaptation parameters to geographic positions, the method comprising the steps of:
  - a) receiving of a link quality parameter from a mobile terminal,

- b) determining of a geographical position of the mobile terminal,
- c) determining of a link adaptation parameter based on the link quality parameter,
- d) storing of the link adaptation parameter being assigned to the geographical position,

repeating of steps a) to d) for a number of times.

6. The method of claim 5, whereby the steps a) to d) are repeated during a pre-determined time interval.
7. A computer program product, in particular digital storage medium, for selecting a link adaptation parameter for a communication link between a mobile terminal and a network component of a wireless telecommunication network, comprising program means for performing the steps of:
  - entering of a geographical position of the mobile terminal,
  - performing a database query in a database which stores link adaptation parameters being assigned to geographical positions in order to determine the link adaptation parameter of the geographical position of the mobile terminal,
  - outputting of the link adaptation parameter.
8. A computer program product, in particular digital storage medium, for generating of a database for assigning of link adaptation parameters to geographical positions, comprising program means for performing the steps of:
  - entering of a geographical position of a mobile terminal,
  - entering of a link adaptation parameter which has been determined for a communication link between the mobile terminal

and a network component of a wireless telecommunication network,

- storing of the link adaptation parameter with the assigned geographical position for later retrieval using a geographical position as a key.

9. A network component of the wireless telecommunication network, the network component comprising:

- means for entering of a geographical position of a mobile terminal,
- means for performing a database query in a database storing link adaptation parameters being assigned to geographical positions using the geographical position of the mobile terminal as a key in order to determine the link adaptation parameter for a communication link to the mobile terminal in the wireless telecommunication network.

10. A telecommunication network for establishing a communication link between a mobile terminal and a network component, the communication link having a link adaptation parameter, the telecommunication network comprising:

- database means for storing of link adaptation parameters being assigned to geographical positions,
- means for determining of a geographical position of the mobile terminal,
- means for determining of the link adaptation parameter for the telecommunication link based on the geographical position by querying the database using the geographical position of the mobile terminal as a key.